

Message Text

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ACTION ERDA-07

INFO OCT-01 EUR-12 ISO-00 FEA-01 AID-05 CEA-01 CIAE-00

CIEP-02 COME-00 DODE-00 EB-07 FPC-01 H-02 INR-07

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FM AMEMBASSY BELGRADE

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INFO AMEMBASSY BUCHAREST

AMEMBASSY MOSCOW

AMEMBASSY PRAGUE

AMEMBASSY WARSAW

UNCLAS SECTION 1 OF 2 BELGRADE 0659

E.O. 11652: N/A

TAGS: TECH, YO

SUBJECT: BACKGROUND INFORMATION ON FOREIGN ENERGY PROGRAMS

REF : A. 75 STATE 289786, B. BELGRADE 228

SUMMARY: THE DEVELOPMENT OF DOMESTIC ENERGY SOURCES AND ELECTRIC POWER CAPACITY IS GIVEN VERY HIGH PRIORITY IN YUGOSLAVIA, AS HIGH AMOUNTS OF ENERGY IMPORTS AND INSUFFICIENT PRODUCTION OF ELECTRICITY ARE SERIOUS OBSTACLES TO FURTHER ECONOMIC DEVELOPMENT AND BALANCE OF PAYMENTS STABILITY. THE ENERGY CRISIS CONVINCED THE YUGOSLAV GOVERNMENT THAT DEPENDENCE ON OUTSIDE ENERGY SOURCES SHOULD BE MINIMIZED. THE RESEARCH AND DEVELOPMENT PROGRAM IS NOT, HOWEVER, CENTRALLY DIRECTED OR HEAVILY FUNDED. THE POSITION OF THE GOVERNMENT IS THAT FUNDS FOR RESEARCH AND DEVELOPMENT SHOULD BE GENERATED DIRECTLY BY ENTERPRISES WITH THE ECONOMY. FUTURE RESEARCH WILL CONCENTRATE ON THE USE OF LIGNITE AS AN ENERGY SOURCE, NUCLEAR FUEL TECHNOLOGY, UNCLASSIFIED

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AND SECONDARY AND TERTIARY RECOVERY OF OIL RESERVES, IN ADDI-

TION TO EXPLORATION FOR ADDITIONAL DEPOSITIS. END SUMMARY.

1. GOVERNMENT STRUCTURE OVERSEEING ENERGY AND RELATED R&D ACTIVITIES:

THE YUGOSLAV SYSTEM OF PLANNING AND DEVELOPMENT PLACES THE INITIATIVE FOR NEW PROJECTS AT THE ENTERPRISE, COMMUNITY, AND REPUBLIC LEVELS. THE FEDERAL GOVERNMENT ACTS AS A COORDINATOR OF THE LOWER-LEVEL PLANS WHICH ARE BROUGHT FORWARD. THE AGENCIES LISTED BELOW ARE INVOLVED IN THE COORDINATION OF ENERGY DEVELOPMENT PLANS.

A) THE COMMITTEE ON ENERGY AND INDUSTRY IS THE FEDERAL AGENCY WITH GUIDES THE OVERALL YUGOSLAV ENERGY POLICY IN THE DESIRED DIRECTION, APPROVES ALL JOINT VENTURES, ENSURES THAT ACTUAL PERFORMANCE MATCHES ENERGY DEVELOPMENT PLANS AND MONITORS WORLD ENERGY DEVELOPMENTS. IT IS COMPOSED OF 18 MEMBERS, INCLUDING ONE FROM EACH REPUBLIC AND AUTONOMOUS PROVINCE. VARIOUS INTEREST GROUPS, SUCH AS THE OIL AND GAS COMPANIES, ARE ALSO REPRESENTED. ONE OF THE SEVEN SUBSIDIARIES OF THIS COMMITTEE IS RESPONSIBLE FOR ENERGY AND ALL ENERGY-RELATED MATTERS.

PRESIDENT: DUSAN ILIJEVIC
ASST. SECRETARY FOR ENERGY: DJURA PODUNAVAC

B) THE COMMITTEE FOR COORDINATION OF THE FEDERAL EXECUTIVE COUNCIL (FEC). THIS IS A HIGH LEVEL GROUP CHAIRED BY DZEMAL BIJEDIC, PRESIDENT OF THE FEC, WHOSE SCOPE IS THE OVERALL DEVELOPMENT PROGRAM. IT ACTS AS ARBITER IN CONFLICTS BETWEEN REPUBLICS OR PROVINCES. IT WOULD DECIDE, FOR EXAMPLE, WHICH OF TWO REPUBLIC COULD PROCEED WITH ENERGY DEVELOPMENT PLANS WHICH CONFLICTED.

PRESIDENT: DZEMAL BIJEDIC

C) FEDERAL INSTITUTE FOR SOCIAL PLANNING. THIS AGENCY GATHERS THE DEVELOPMENT PLANS OF THE REPUBLICS AND PROVINCES FOR STUDY BY THE TWO COMMITTEES MENTIONED ABOVE.

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GENERAL DIRECTOR: JOZE NOVINSEK
SENIOR COUNSELLOR FOR ENERGY: ING. MIODRAG DRAZA MARKOVIC

D) JUGEL, THE UNION OF THE YUGOSLAV ELECTRIC POWER INDUSTRY. THIS IS A QUASI-GOVERNMENTAL ASSOCIATION OF ALL THE ENTERPRISES ENGAGED IN ELECTRICAL SUPPLY AND TRANSMISSION. WHILE NOT TECHNICALLY A GOVERNMENT AGENCY, SOCIAL AGREEMENTS (COVERING ALL ASPECTS OF NATION-WIDE ENERGY PRODUCTION) WHICH IT INITIATES AND SUPERVISES

HAVE THE FORCE OF LAW. IT IS THE COORDINATOR FOR THE WHOLE ELECTRIC ENERGY SYSTEM AND ALSO A CENTER FOR THE ALLOCATION OF RESEARCH AND DEVELOPMENT FUNDS.

GENERAL DIRECTOR : LAZAR LJUBISA
CHIEF OF RESEARCH AND DEVELOPMENT
OF ENERGY : DJORDJE DIKIC

E) FEDERAL COMMISSION FOR NUCLEAR ENERGY

IT HAS RECENTLY BEEN ANNOUNCED THAT THIS COMMISSION WOULD BE ESTABLISHED AS A COMMITTEE OF THE FEDERAL EXECUTIVE COUNCIL. NO OTHER DETAILS ARE KNOWN AT THIS TIME.

2. ENERGY OBJECTIVES OF THE COUNTRY.

WHILE HAVING EXCELLENT HYDROELECTRIC POWER POTENTIAL AND LARGE RESERVES OF LIGNITE, THE YUGOSLAVS LACK SUFFICIENT OIL AND NATURAL GAS FOR ITS EXPANDING ECONOMY. FURTHERMORE, A LARGE EXPANSION OF ITS ELECTRIC POWER CAPACITY IS NEEDED TO MEET THE INCREASING NEEDS OF THE ECONOMY. THE GOY HAS THE FOLLOWING GOALS:

A) EXPAND THE PRODUCTION AND CONSUMPTION OF LIGNITE SO THAT IT BECOMES THE LARGEST PRIMARY ENERGY SOURCE.

B) IN ADDITION TO INCREASED EXPLOITATION OF DOMESTIC RESERVES (FROM 3.5 MILLION TONS TO PLANNED 4.5 MILLION IN 1980), LIMIT THE INCREASE IN THE IMPORTATION OF OIL AND NATURAL GAS. AT PRESENT TWO-THIRDS OF THE OIL CONSUMED IS IMPORTED. ONE APPROACH WILL BE TO ADD REFINING CAPACITY TO INCREASE THE PROPORTION OF OIL USED AS HIGHER DERIVATIVES.

C) DOUBLE THE CAPACITY OF HYDRO-ELECTRIC PLANTS BY 1980 FROM UNCLASSIFIED

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4600 MEGAWATTS (MW) TO 9400 MW.

D) EXPAND THE CAPACITY OF THERMO-ELECTRIC PLANTS FROM 4000 MW IN 1975 TO 10,500 MW IN 1980. INCLUDED IN THIS SOMEWHAT OPTIMISTIC GOALS IS THE WISH TO INCREASE NUCLEAR POWER OUTPUT ABOVE THE 600 MW PLANT NOW UNDER CONSTRUCTION.

E) IN CONNECTION WITH (C) AND (D) DEVELOP ADEQUATE CAPACITY IN ELECTRICAL ENERGY PRODUCTION AND TRANSMISSION TO MEET THE NEEDS OF THEIR EXPANDING ECONOMY THROUGH 1990.

E. R AND D PRIORITIES. THE ENERGY CRISIS HAS CAUSED THE YUGOSLAVS TO DIRECT THEIR ENERGY R AND D PRIORITIES TOWARD USING DOMESTIC RESOURCES.

A) USE OF LIGNITE FOR ENERGY. THE MAIN RESEARCH AND DEVELOPMENT EFFORT IN THE FUTURE WILL BE CONCENTRATED ON BETTER UTILIZATION OF THEIR LARGE RESERVES OF LIGNITE FOR PURPOSES OTHER THAN FOR WHICH TECHNOLOGY IS IN HAND. SPECIAL ATTENTION WILL BE PAID TO THE TUDY OF THE DEVELOPMENT OF ADVANCED TECHNOLOGY FOR LIGNITE GASIFICATION. THERE IS ALSO SUBSTANTIAL INTEREST IN THE BRIGQUETTING PROCESS FROM LIGNITE COALS.

B) NUCLEAR TECHNOLOGY. NUCLEAR RESEARCH STAGNATED FOR SEVERAL YEARS IN YUGOSLAVIA, BUT HAS NOW REVIVED WITH THE COMMITMENT TO

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R 301530Z JAN 76

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INFO AMEMBASSY BUCHAREST

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AMEMBASSY PRAGUE

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BUILD ONE OR MORE NUCLEAR PLANTS. RESEARCH WILL BE CONCENTRATED ON THE DEVELOPMENT OF NUCLEAR FUEL TECHNOLOGY.

C) OIL RESERVES.

EXPLORATION EFFORTS INCLUDE A US-YUGOSLAV JOINT VENTURE NOW DRILLING FOR OIL IN THE ADRIATIC. TO IMPROVE YIELD, ENTERPRISES ARE PERFORMING RESEARCH ON SECONDARY AND TERTIARY RECOVERY OF RESERVES.

4. R AND D ACTIVITIES.

THE RESEARCH AND DEVELOPMENT PROGRAM OF YUGOSLAVIA IS NIETHER LARGE NOR CENTRALIZED. THE POSITION OF THE GOVT IS THAT RESEARCH FUNDS SHOULD BE GENERATED BY THE ECONOMY , ALTHOUGH IT DOES FUND SOME RESEARCH PROJECTS (THE NUCLEAR RESEARCH BEING DONE AT THE BORIS KIDRIC INSTITUTE, FOR EXAMPLE). VARIOUS ENTERPRISES HAVE ESTABLISHED RESEARCH AND DEVELOPMENT BRANCHES FOR SUBJECTS IN WHICH THEY HAVE AN INTEREST. JUGEL IS THE FOCAL POINT FOR MUCH OF THE ELECTRIC ENERGY RESEARCH. THEY HAVE \$2 MILLION GRANT FROM THE IBRD TO PLAN A NATIONAL 380 KV TRANSMISSION NETWORK
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AND PLAN TO SPEND AN ADDITIONAL \$4-6 MILLION IN RESEARCH IN 1976. ANOTHER \$10 MILLION IS PLANNED FOR THE NEXT 2-3 YEARS. ORGANIZATIONS IN THE ECONOMY ARE EXPECTED TO INVEST ABOUT THE SAME. SPECIFIC PROJECTS WHICH ARE NOW UNDERWAY IN YUGOSLAVIA INCLUDE A COAL GASIFICATION PLANT IN KOSOVO, THE OIL DRILLING JOINT VENTURE IN THE ADRIATIC, AND THE NUCLEAR RESEARCH BEING DONE AT THE BORIS KIDRIC AND THE JOSEF STEFAN NUCLEAR INSTITUTES. THE JOSEF STEFAN INSTITUTE HAS AN EXPERIMENTAL REACTOR. YUGOSLAVIA CURRENTLY HAS A SEVERE SHORTAGE OF DEVELOPMENT FUNDS. UNTIL THIS SITUATION IMPROVES, IT IS UNLIKELY THAT MORE EFFORT WILL BE EXPENDED ON RESEARCH AND DEVELOPMENT. WHAT WOULD MAKE THE EXISTING PROGRAM MORE EFFECTIVE, HOWEVER, IS AN EFFORT BY THE GOVT TO ADD SOME CENTRAL DIRECTION TO THE EFFORTS WHICH NOW EXIST.

5. INTERNATIONAL ACTIVITIES.

YUGOSLAVIA IA A MEMBER OF SEVERAL WEST EUROPEAN ORGANIZATIONS CONCERNED WITH THE PRODUCTION AND DISTRIBUTION OF ELECTRICAL ENERGY (UNIPED, UCPTE, CIGRE), AND AN OBSERVOR AT COMECON ENERGY FUNCTIONS. ALSO, IT IS AN ACTIVE MEMBER OF THE INTERNATIONAL ATOMIC ENERGY AGENCY. AS FAR AS CAN BE DETERMINED, THE YUGOSLAVS DO NOT PARTICIPATE IN ANY OTHER ORGANIZATION SPECIFICALLY DEALING WITH ENERGY R AND D. THEY OF COURSE PLAY AN ACTIVE PART IN GENERAL PURPOSE INTERNATIONAL ORGANIZATIONS THAT AMONG THEIR ACTIVITIES INCLUDE ENERGY R & D AND POLICY, THE MOST RECENT EXAMPLE BEING THE CONFERENCE ON INTERNATIONAL ECONOMIC COOPERATION. SIMILARLY, THEY DEAL WITH ENERGY R&D WITHIN THEIR BILATERAL SCIENCE COOPERATIVE PROGRAM, THE LARGEST OF WHICH BY FAR IS WITH THE U.S.

6. KEY OFFICIALS WITH SIGNIFICANT RESEARCH AND DEVELOPMENT RESPONSIBILITIES.

INDIVIDUALS WITH SIGNIFICANT R AND D RESPONSIBILITIES ARE NOT LOCATED IN GOVT AGENCIES, BUT IN RESEARCH INSTITUTES AND JUGEL. LISTED BELOW ARE 10 OF THE MOST PROMINENT IN THE ENERGY R AND D FIELD.

A) ING. DJORDJE DIKIC, CHIEF OF RESEARCH AND PLANNING DIVISION

JUGEL-YUGOSLAV ASSOCIATION FOR ELECTRICAL ENERGY
BALKANSKA 13-15
1000 BELGRADE
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B) PROF. DR. HRVOJE POZAR (ELECTROTECHNICAL FACULTY ZAGREB
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E) MR. MILE STOJANOVSKI
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G) ING. LJUBOMIR MOJOVIC
ENERGOPROJEKT
ZELENI VENAC 18
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(MOST PROMINENT IN PRACTICAL RESEARCH AND APPLICATIONS)

H) DR. ING. NAIM AFGAN
INSTITUTE BORIS KIDRIC
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J) DR. DANILO FERETIC
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68270 KRSKO
(PRACTICAL RESEARCH ON THE SITE OF THE FIRST NUCLEAR PLANT
IN YUGOSLAVIA).
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